BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work: :- Operation and maintenance of Park Lighting System in Ward No 03 & 04 Package Y-12 of Yelahanka Zone

Name of Contractror of nature of Agency:-M/S. Swamy Electrical

Job Code No:-003-20-000040

Ref no and Date of commencement of work:-:- EE/Ele/YNK/TEND/WO/000040 /20-21 Date:31/12/2020

Measurement Book No: **Page No:**

Bill NO :- 5Th & Final Bill Bill Period : 01-1-2022 to 31-03-2022 (for 3 months)

Sl. No.		Unit	Period in Months	Present Measurements		
				Qty	Tender Full Rate	Cost
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below					
	i) Poles with 36/40 W fluorescent tube light street lighting system	Nos	3	1	26.25	78.75
2	Poles with 125 W MV light Park lighting system.	Nos	3	601	55.41	99904.23
3	Poles with 250W HPMH light street lighting system.	Nos	3	99	91.66	27223.02
4	Poles with 400 watts HPSV light street lighting system.	Nos	3	16	91.66	4399.68
5	Poles with 24 W LED light street lighting system.	Nos	3	100	73.33	21999.00
6	Poles with 65 W LED light street lighting system.	Nos	3	1	95.58	286.74
7	Poles with 90 W LED light street lighting system.	Nos	3	10	108.33	3249.90
8	B. Work to be carried out as per requirement & actuals and as per the direction of the in charge engineer, Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/looting of the pole.a)5 mtr pole	-		0	405.00	0.00
9	c) 8 Mtr and above street light pole	Nos	-	0	415.00	0.00
10	Operation and maintenance of Manual and Automatic Timer Switching circuits including replacement of electrical gadgets, such as MCB's Contactors, Timer, Cut-outs, wiring connector and M.S. Box with proper insulation etc., complete.	Nos	3	25	108.33	8124.75
11	Moulded Case Circuit Breaker (MCCB) Three Pole 100Amps 25kA	Nos	-	0	2718.00	0.00
12	4 Pole Power Contactor with NO/NC Contactor.100-125Amps	Nos	-	0	4320.00	0.00
13	Miniature Circuit Breakers. 40 Amps SP	Nos	-	0	185.00	0.00

Assistant Executive Engineer (Ele)
BBMP, Bangalore
8/6/22

14	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm	Mtrs	-	0	115.00	0.00
15	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs	-	0	10.00	0.00
16	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.	Mtrs	-	0	45.00	0.00
17	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.	Nos	-	0	4200.00	0.00
18	Providing servicess of Electrician With tools , Rs.14021.27/Month/person, Rs.14021.27÷26Days=539.27/Day/Person, Including E.S.I & PF, as per Go No KE/31/LMW/2017 Dated 28/4/2017 for maintenance of Fountain	Days	-	0	540.00	0.00
19	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm	Mtrs	-	0	25.00	0.00
20	Transporting and erecting of 3.5 Mtrs long Swged Tubelor park poles including Digging of pit 45x45x100cms & providing 1:2:4 concrete of size 35x35x130 cms Including coping as per the detaild enclosed civil estimate & drawimg	Nos	-	0	850.00	0.00

Assistant Executive Engineer (Elec)
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21	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Powerconsumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.KPWD ELE SR Page-66/12.8 LED Streetlight 90 Watts	Nos	-	0	7160.00	0.00
	TOTAL					**165266.07**
	Add GST 12 % on item no 08 to 21			0.00		0.00
	TOTAL Rs					**165266.07**
	Fine imposed for non burning of street lights For the period of 01/10/2021 to31/12/2021					2700.00
	As per street light agreement clause 2% will be deducted in monthly maintenance bill against the released scrap material					3305.32
	GRAND TOTAL					**159260.75**

CERTIFICATE

1. This is to certify that the work done is saticefactorily.
2. This is to certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst Exe Engineer(Elec)
Yalahanka Division

Assistant Executive Engineer (Elc)
BBMP, Bangalore